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Facsimile 202-457-6315
www.pattonboggs.com

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JUN 17 2002

June 17, 2002

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Paul C. Besozzi
(202) 457-5292
pbesozzi@pattonboggs.com

Ms. Magalie Roman Salas
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, DC 20554

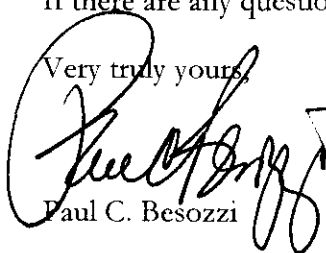
Re: **EX PARTE NOTICE**
CC Docket No. 94-102

Dear Ms. Salas:

Pursuant to Section 1.1206(b)(1) of the Commission's Rules, I am forwarding to the Secretary's Office for inclusion in the record two copies of the attached letters dated June 14, 2002 to the following parties: Peter Tenhula, Senior Legal Advisor to Chairman Powell; Jordan Goldstein, Senior Legal Advisor to Commissioner Copps; Bryan Tramont, Senior Legal Advisor to Commissioner Abernathy; and Daniel Gonzalez, Senior Legal Advisor to Commissioner Martin. The letters simply attach a copy of a letter of same date to Thomas Sugrue, Chief, Wireless Bureau, which was filed on the Electronic Comment Filing Database (ECFS), and which provides a further update of the collaborative effort between public safety, location technology vendors and the wireless industry that has made Phase II location a reality in the State of Oregon, and the launch of Phase II service by Edge Wireless LLC.

If there are any questions concerning this matter, please contact me at (202) 457-5292.

Very truly yours,



Paul C. Besozzi

Enclosure

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June 14, 2002

Paul C. Besozzi
(202) 457-5292
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Mr. Peter A. Tenhula
Senior Legal Advisor to Chairman Powell
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

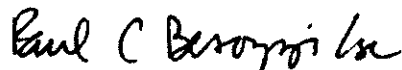
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Dear Peter:

There continues to be a high level of interest in the rapid deployment of Phase II E911 capability, particularly in the aftermath of 9/11. The attached letter updates the Commission on how a unique multi-cornered partnership in the State of Oregon has helped get that capability into the hands of the public sooner rather than later.

Should you have any questions, please let me know.

Sincerely yours,



Paul C. Besozzi

Enclosures

cc: Andy Rimkus

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ORIGINAL

June 14, 2002

Paul C. Besozzi
(202) 457-5292
pbsozzi@pattonboggs.com

Mr. Jordan Goldstein
Senior Legal Advisor to Commissioner Copps
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Dear Mr. Goldstein:

There continues to be a high level of interest in the rapid deployment of Phase II E911 capability, particularly in the aftermath of 9/11. The attached letter updates the Commission on how a unique multi-cornered partnership in the State of Oregon has helped get that capability into the hands of the public sooner rather than later.

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Sincerely yours,

Paul C. Besozzi / u

Paul C. Besozzi

Enclosures

cc: Andy Rimkus

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ORIGINAL

June 14, 2002

Paul C. Besozzi
(202) 457-5292
pbsozzi@pattonboggs.com

Mr. Bryan Tramont
Senior Legal Advisor to Commissioner Abernathy
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Dear Mr. Tramont:

There continues to be a high level of interest in the rapid deployment of Phase II E911 capability, particularly in the aftermath of 9/11. The attached letter updates the Commission on how a unique multi-cornered partnership in the State of Oregon has helped get that capability into the hands of the public sooner rather than later.

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Sincerely yours,



Paul C. Besozzi

Enclosures

cc: Andy Rimkus

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June 14, 2002

Paul C. Besozzi
(202) 457-5292
pbesozzi@pattonboggs.com

Mr. Daniel Gonzalez
Senior Legal Advisor to Commissioner Martin
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Dear Mr. Gonzalez:

There continues to be a high level of interest in the rapid deployment of Phase II E911 capability, particularly in the aftermath of 9/11. The attached letter updates the Commission on how a unique multi-cornered partnership in the State of Oregon has helped get that capability into the hands of the public sooner rather than later.

Should you have any questions, please let me know.

Sincerely yours,



Paul C. Besozzi

Enclosures

cc: Andy Rimkus

ORIGINAL

June 14, 2002

Paul C. Besozzi
(202) 457-5292
pbesozzi@pattonboggs.com

Mr. Thomas J. Sugrue
Chief
Wireless Telecommunications Bureau
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

RE: Deployment of Phase II E911 Capability In the State of Oregon
CC Docket 94-102

Dear Mr. Sugrue:

On May 30th, 2002, nearly nine months of collaborative effort between public safety, location technology vendors and the wireless industry made Phase II location a reality in the State of Oregon. Edge Wireless LLC, a member of the AT&T Wireless network, announced its launch of Phase II service through global positioning system (GPS)-enabled handsets in Douglas County, Oregon. Working closely with the State of Oregon Office of Emergency Management and leading industry vendors – including Airbiquity, Inc., Plant Equipment, Inc., and Qwest – Edge Wireless will cover three additional counties with high-accuracy Phase II service by the end of July 2002 (over 16,000 square miles; an area roughly the size of the State of Rhode Island).

This Phase II solution utilizes a GPS Accessory for Nokia-brand wireless phones and Public Safety Answering Point (PSAP) hardware and software. No modifications to the carrier's network (cell site or switch) are needed to implement this solution; the carrier's only activity is to distribute the wireless device. While Edge Wireless operates in TDMA only, the same GPS Accessory without any alteration operates with GSM, CDMA, and AMPS networks. The GPS Accessory was developed by Airbiquity, and is being sold at retail by Edge Wireless stores in southwestern Oregon to Edge customers at \$79.99 MSRP. The related PSAP hardware and software was developed by Airbiquity and Plant Equipment, and is being maintained by Qwest (the Local Exchange Carrier).

Contained within the package of information on this Phase II launch is the following:

- Additional background of the solution (1 page)
- Information on the GPS Accessory (1 page)
- Information on the Edge Wireless Offering (1 page)
- Photographs of the State of Oregon Launch even held in Eugene, OR on 5/30/02 (1 page)

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Mr. Thomas J. Sugrue
June 14, 2002
Page 2

- Photographs of the Douglas County, Oregon launch event held in Douglas County, OR on 5/30/02 (1 page)
- Photographs of the GPS Accessory on sale in the Edge Wireless retail stores (1 page)
- Press coverage of both events (4 articles)

To officially launch this service and to demonstrate the considerable political and public safety support of this first Phase II implementation in the western United States, the Oregon Office of Emergency Management held a press conference on Thursday, May 30th, 2002 at 10 a.m. in Eugene, Oregon. Live demonstrations of the technology were conducted. The list of speakers included:

- U.S. Senator Ron Wyden (D-OR)
- Thera Bradshaw, President-Elect, Association of Public-Safety Communications Officials (APCO)
- Bill McMurray, Incoming Second-Vice President, National Emergency Numbers Association (NENA)
- Ken Keim, Director, Technology & Response, Oregon Office of Emergency Management

After the Eugene event, Edge Wireless hosted its own launch event at the Douglas County Courthouse at 4 p.m. on May 30th, 2002. In addition to Ms. Bradshaw, Mr. McMurray, and Mr. Keim, Sheriff Jim Main, Douglas County Sheriff's Department, Mr. Donnie Castleman (President and COO of Edge Wireless), Mr. Joe Gayer (Program Director at Edge Wireless) and representatives from Airbiquity, Qwest, and Plant Equipment, Inc. attended. Live demonstrations of the 911 service were also conducted.

We hope that this information is helpful as you continue to consider the various waiver requests, including the Edge filing which proposed the use of this technology.

Sincerely yours,

Paul C. Besozzi /enc

Paul C. Besozzi

Enclosures

cc: James D. Schlichting
Blaise Scinto
Patrick Forster

Edge Wireless/State of Oregon Wireless Phase II Implementation

May 30th, 2002

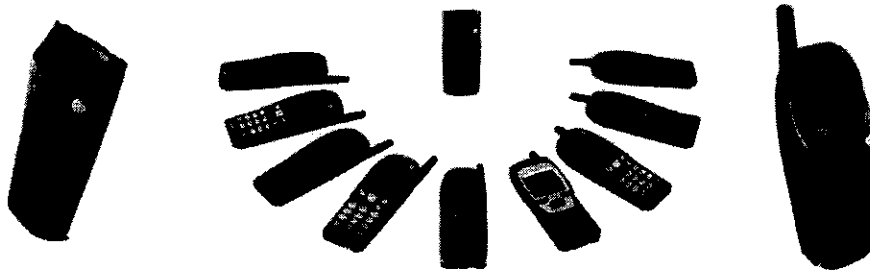
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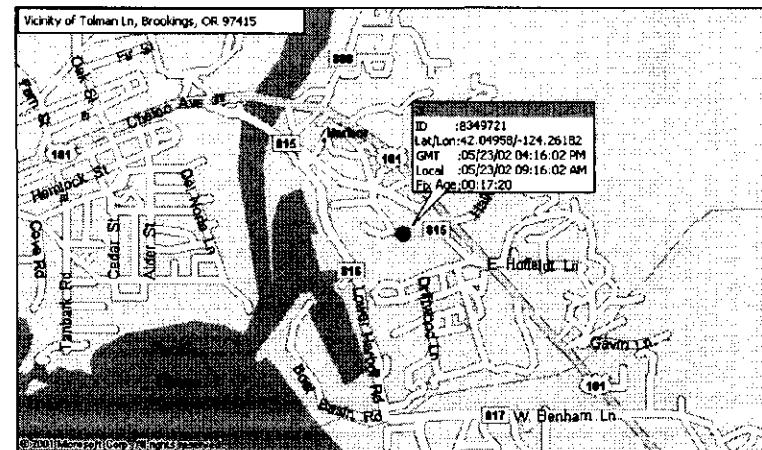
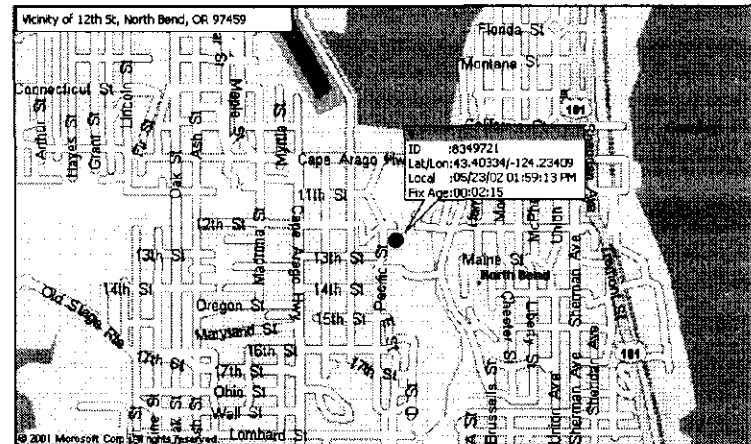
Overview of Implementation

- FCC Phase II E9-1-1 mandate to locate wireless phones
 - Began October 2001
 - To be completed by December 2005
- Airbiquity testified at House Subcommittee on 6/14/01 regarding its capabilities to support this requirement
- Our company's products major part of first Phase II E9-1-1 implementation in the Western United States
 - GPS Accessory for wireless phones
 - aqServer for Public Safety Answering Points (PSAPs)
- Key Partners: State of Oregon, Plant Equipment, Qwest, Airbiquity, Edge Wireless
- Officially launched: May 30th, 2002
 - Douglas, Josephine, Curry, and Coos Counties in Oregon
- Wireless Carrier: Edge Wireless
 - Rural carrier in states of Oregon, Wyoming, Idaho and California

gpsAccessory™ Product Details



- Instantly attachable GPS Accessory in the form of a standard Nokia® battery
- Simple, 1-button, Push-to-Pinpoint™ button for sending GPS data during call
- Retrofittable to over 44 different models of Nokia® phones, with no phone reflash
- Operates on all TDMA and TDMA/AMPS networks; same product operates on GSM, CDMA/AMPS, and AMPS units.
- Built-in RS-232 for interface to handheld
- Available for attachment to estimated 120m phones in service today worldwide
- Additional information available at <http://www.airbiquity.com>



Sample Locations in Oregon
With GPS Accessory on
Edge Wireless demo site

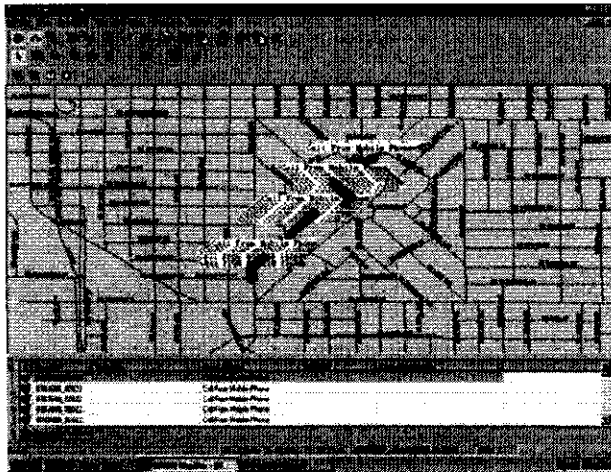
edge WIRELESS™ Offering Details



PRODUCT OFFERING:

- o First TDMA wireless carrier in the U.S. to offer a GPS-based handset solution for E9-1-1
- o Coos, Curry, Douglas and Josephine counties

Actual GPS tracking on PSAP Console:

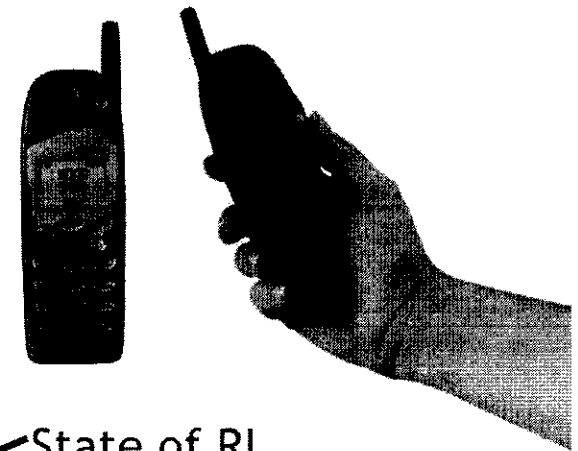


Edge coverage area in Southern Oregon:

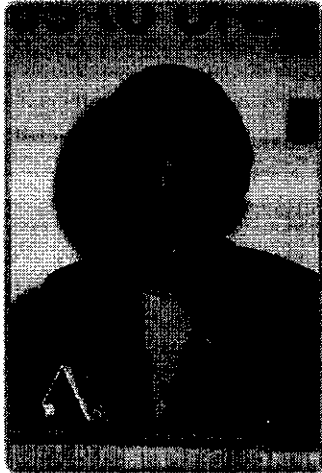


State of RI
(For comparison)

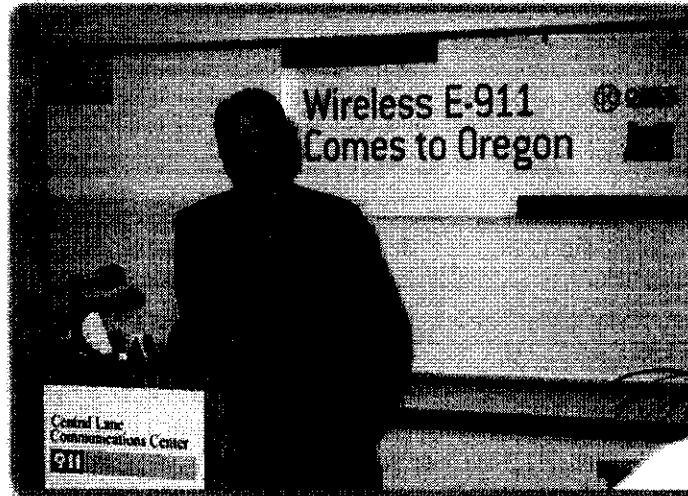
GPS Accessory
Being sold for
\$79.99



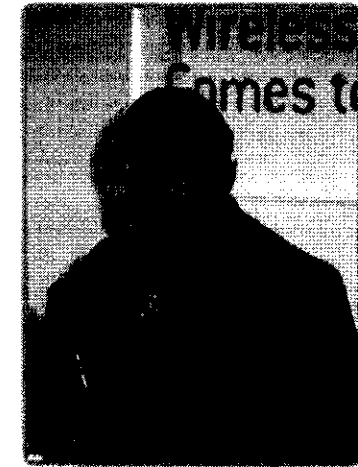
State of Oregon Wireless E9-1-1 Launch Eugene, OR (5/30/02)



APCO President-Elect,
Thera Bradshaw

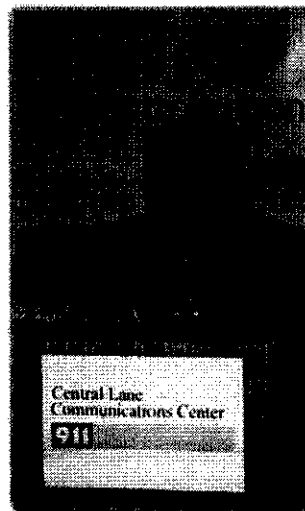


U.S. Senator, Ron Wyden (D-Ore.)



Bill McMurray,
Incoming 2nd Vice President,
NENA

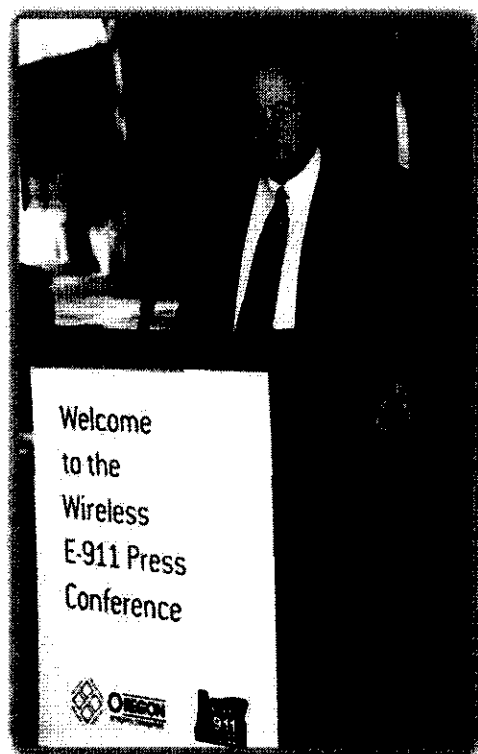
Ken Keim,
Office of Emergency Management,
State of Oregon



GPS Accessory
Demonstration

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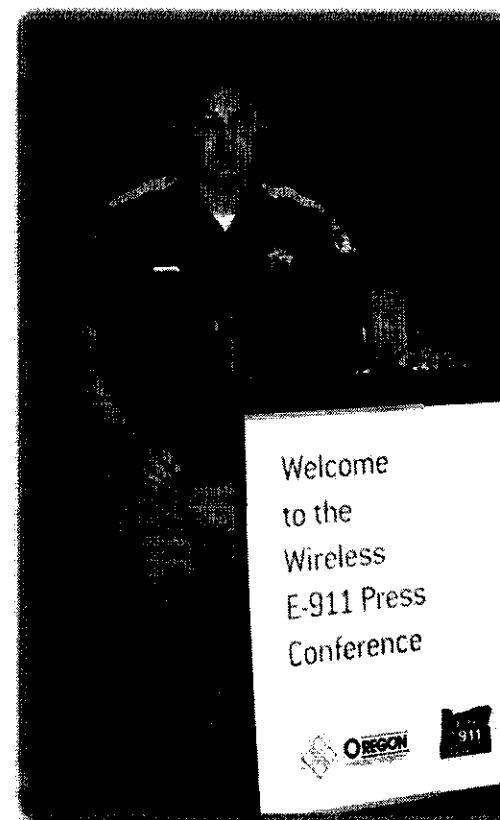
Edge Wireless E911 Launch Roseburg, OR (5/30/02)



Mr. Joe Gayer, Program Director,
Edge Wireless



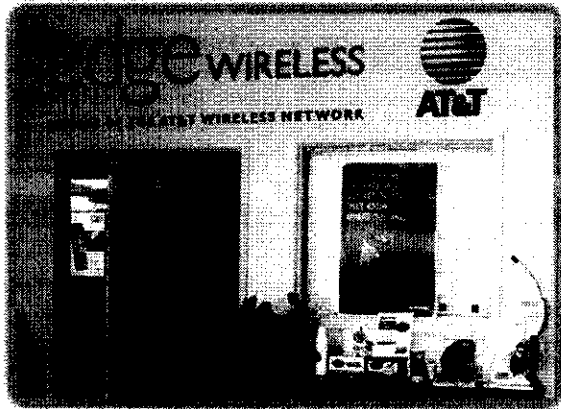
Representatives from the
Phase II Implementation (from left to right):
Douglas County, State of Oregon, Qwest,
Edge Wireless, Airbiquity, Plant Equipment



Sheriff Jim Main
Douglas County
Sheriff's Department

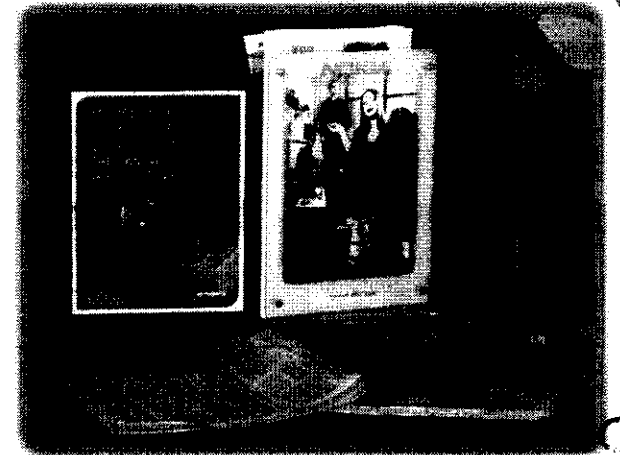
Original

Edge Wireless Retail Outlets

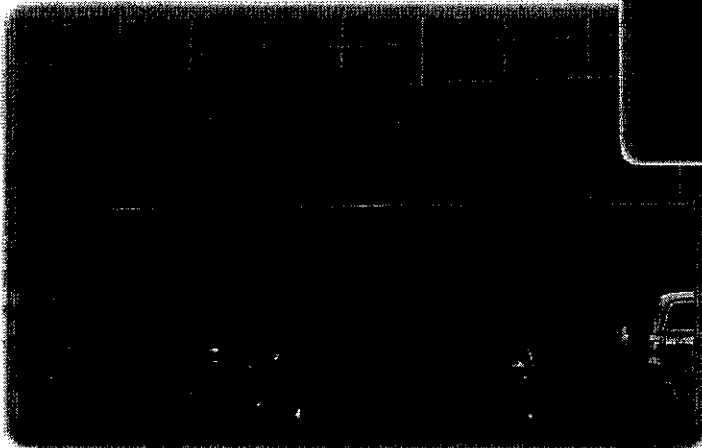


Roseburg Store

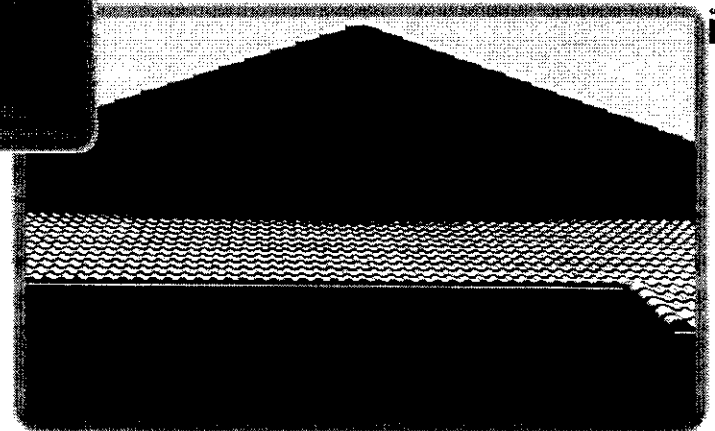
GPS Accessory
for sale



Grants Pass Tabletops



Roseburg Storefront



Grants Pass Storefront

Wireless system can pinpoint locations

■ Enhanced 911: Oregon dispatchers will be among the first in the West to make use of the GPS feature in cell phones.

By REBECCA NOLAN
The Register-Guard

A disoriented and frantic man called 911 on his cellular phone.

His car had just rolled over on an isolated logging road. His hand was broken, he was bleeding, and he had no idea where he was.

An emergency dispatcher at the Central Lane Communications Center in Eugene tried to pinpoint his location, but the man grew more and more hysterical with each passing moment.

The dispatcher eventually sent help and the man survived, no thanks to current cellular phone technology, which does not provide precise location information for 911 callers.

That will soon change for four Oregon counties when Bend-based Edge Wireless

becomes the first wireless telephone provider west of St. Louis, Mo., to complete the second phase of Enhanced 911.

The first stage equipped all dispatch centers nationwide with technology that identified the physical origin of all landline 911 calls.

By the end of summer, dispatchers in Douglas, Coos, Josephine and Curry counties will be able to pinpoint the exact location of wireless phone users as well.

The Federal Communications Commission mandated that wireless service providers have locator technology in place by October but most companies missed the deadline, Oregon Sen. Ron Wyden said during a Thursday news conference.

"People said, 'Oh, it just couldn't be done,'" Wyden said. "Oregon is showing that it can be done."

Wyden called the new technology a critical development that will provide "faster, more immediate service at a time when even a few minutes can mean a critical difference."

Lane County could have Enhanced 911 by the end of the year, said Ken Keim,

director of technology and response for the Oregon Office of Emergency Management.

About 35 percent to 40 percent of all Oregon 911 calls are made on wireless phones, Keim said.

Most of the time, callers can tell dispatchers where they are. But when the caller doesn't know or cannot speak, dispatchers have no idea where to send help.

Edge Wireless uses global-positioning technology developed by Airbiquity Inc. to relay location information via satellite to the nearest dispatch center. By simply pushing a small button on the phone's battery pack, the caller activates the system.

The GPS accessory is compatible with Nokia-brand wireless phones and is available at Edge Wireless retail outlets in Oregon.

Other wireless service providers are in the process of developing similar technologies. The final FCC deadline is December 2005.

Oregon wireless users pay a 75-cent monthly 911 tax. Much of that money — about \$12 million — has been set aside to pay for the installation of necessary GPS

software at every Oregon 911 center, Keim said.

"Oregon does not have a problem with funding this," Keim said.

But the tracking system is not perfect, officials said.

GPS technology does not work indoors, although it will store the last outdoor location and relay that information to dispatchers. It also might not work properly from inside a deep canyon or ravine, or any area where the satellite signal might be blocked.

The technology could have helped the man stranded out on the logging road with no idea where he was, said Bill McMurray of the National Emergency Number Association and communications manager for the Marin County, Calif., sheriff's office.

"Listening to that call this morning raised the hairs on the back of my neck because I know this is happening 100 or 200 times a day," McMurray said. "We have not been able to serve our public correctly, and we've exasperated our dispatchers time and time again."

"Now Oregon can serve as a road map to the rest of the country."



Tips



Tips

Thursday June 13, 2002

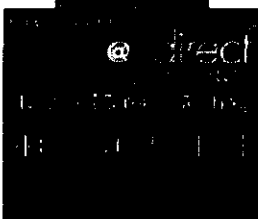
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Oregon Launches Phase II E-911 Service

By Kristy Bassuener
May 30, 2002



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Oregon's Office of Emergency Management today holds an event to commemorate the state's launch of Phase II E-911 wireless services. According to the FCC, Phase II enables emergency safety personnel to pinpoint callers' locations between 50 and 300 meters. The mandate requires 95 percent of wireless phones to be capable of locating callers by 2005.

Oregon started its Phase II rollout in Douglas County, and will launch the capabilities in three more counties over the summer, a statement reads.

Edge Wireless is the carrier providing the services, and Airbiquity will provide the GPS snap-ons for mobile phones and the server software used at the public safety answering points. Plant Equipment also will provide gear for the state's E-911 services rollout.

Previous Stories:

[FCC Slaps AT&T Wireless With Hefty E-911 Fine Notice 5/20/02](#)

[Edge Wireless Picks Airbiquity for E911 1/22/02](#)

[Rhode Island First In State E911 12/11/01](#)

Wireless Announcements

Sealed Bid Auction

Intellectual Property Rights of Hybrid Networks, Inc. Sealed Bid Auction Hybrid Networks, Inc. was the worldwide leader in fixed broadband wireless technology for MMDS and similar licensed frequencies. This auction includes over 15 proprietary U.S. Patents, 3 U.S. Patent applications, and 5 foreign patent applications. To review patent applications [click here](#). Sealed Bids must be submitted by Friday, May 31, 2002, 11:00am (ET)

Questions, call toll-free 1-877-427-7387 or email service@bid4assets.com
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News Briefs:

- **Arch Wireless Inc.**, which announced earlier that a bankruptcy court had approved its restructuring plan, on Wednesday officially emerged from bankruptcy. Click [here](#) for more.
- **Sierra Wireless** and **Casio Computer Co. Ltd.** today announce that they will offer a bundled wireless solution for next-generation mobile networks. Sierra will combine its AirCard 555 CDMA2000 1X and AirCard 750 GSM/GPRS wireless network cards with Casio's Cassiopeia Pocket



Tips



Tips

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Thursday June 13, 2002

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Creating Rural E911 Solutions

Faced with formidable challenges in meeting the FCC's Phase II requirements, small and rural carriers are looking at new ways to overcome obstacles.

By Sue Marek
 June 3, 2002
 Wireless Week

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Like their larger counterparts, small and rural wireless carriers are struggling to meet the FCC requirements for outfitting their networks with enhanced 911 technology. Though they have fewer subscribers and smaller footprints than the nationwide carriers, these diminutive players face some formidable challenges in their deployment plans. Cost, technology constraints and limited staffing are just a few of the dilemmas that rural carriers must overcome in order to meet their E911 deployment goals. All this while the oft-touted revenue potential from commercial location-based applications and services has yet to surface in real dollars.

"Small carriers are facing lots of pressure," says Dan Hoskins, general manager and vice president of Intrado Inc.'s wireless business unit. "The incremental investment for the smaller carrier relative to its revenue size is a lot larger."

That sentiment is echoed by Joe Gayer, director of strategy relations for Edge Wireless, an AT&T Wireless affiliate with markets in California, Idaho, Oregon and Wyoming. Gayer says cost is a huge factor for small carriers trying to meet E911 requirements. "For a network-based solution, the best estimate we received would have cost us about \$30,000 to \$40,000 per cell site" to implement, Gayer says. And for a company with 225 rural cell sites, that type of solution was cost-prohibitive.

With that in mind, the company took the innovative approach of teaming with location-technology provider Airbiquity Inc. to provide GPS-enabled E911 technology for the carrier's Oregon markets. The company was able to initiate its E911 offering in April because Oregon has a program in place that collects 75 cents per month from every person who has access to the 911 system. That funding made it possible to equip public safety answering points with the Airbiquity solution and provided Edge Wireless with an inexpensive way to meet the E911 Phase II requirements. The company doesn't have to install anything on its network; it only has to provide its customers with the option to purchase a GPS accessory that can be attached to 40 different Nokia-brand phones. With the attachment in place, the system can get a position "fix" via satellite with the push of a button. Once the subscriber's position is determined, his or her coordinates are then sent to a PSAP via the wireless voice channel and plotted on a digital mapping display.

While the GPS accessory is limited to Nokia phones, Gayer doesn't believe that's an issue because 85 percent of the handsets sold to Edge Wireless customers are Nokia phones. "This gives us the ability to bring a solution to legacy handsets,"

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 OPEN WIRELESS
 SOLUTION
 COMING UP

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SI	57.70	-0.60
A	24.00	-0.67
USM	28.08	-1.32

NASDAQ	1,496.86	-22.26
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Top 100 Wireless Stocks

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Gayer says.

According to Andy Rimkus, vice president of marketing for Airbiquity, about 18 million to 20 million Nokia phones in the United States are compatible with the firm's GPS attachment. Airbiquity also is working with other handset makers. "We have a very broad opportunity within the marketplace," Rimkus says.

In particular, Airbiquity sees a golden opportunity for business among the TDMA-based rural carriers, such as Edge Wireless, because these carriers tend to have a very large percentage of customers using Nokia-compatible handsets. In addition, these operators are struggling to find an inexpensive E911 solution. "We think what we are doing is appropriate for smaller carriers because our solution requires no infrastructure cost on the part of the carrier," Rimkus says. "And a GPS-solution lends itself very nicely to rural carriers."

And while Gayer admits the Airbiquity attachment isn't an "elegant solution," he says it was an inexpensive and quick way for Edge to provide E911 access. That doesn't mean the company will use this solution outside of Oregon, however. It is in the process of overlaying its TDMA network with GSM/GPRS and hopes to wait until that is installed before it completes the rest of its E911 requirements. At that point, Gayer says it's likely the company will implement some sort of network-based solution.

Like Edge Wireless, Mankato, Minn.-based HickoryTech Wireless, which provides TDMA and analog wireless service in parts of Minnesota, is deploying E911 technology throughout its markets. The company, which has invested about \$700,000 in E911, is installing Grayson Wireless' Geometrix 911 system in its cell sites and hopes to have the system operational sometime this summer.

According to Mark Dundas, network and switch engineering manager for HickoryTech, many of the location-technology equipment vendors have been so focused on the large carriers that their solutions aren't tailored to a small operator. In fact, Dundas says that when he was researching different technologies in order to make a decision, many of the equipment vendors wouldn't even return his phone calls.

The company ended up selecting Grayson Wireless, which says its system is scalable and designed to work in rural as well as urban environments. "We tried to make our system available and applicable to smaller carriers, as well as large carriers," says George Marble, vice president of marketing for Grayson Wireless.

With small carriers such as HickoryTech and Edge Wireless turning their attention to E911 requirements, they have little budget left over for things like coverage improvements or system upgrades. "Two years ago our focus was on building up the network and providing better service to our customers," Dundas says. "Now all our money is going to meeting regulations."

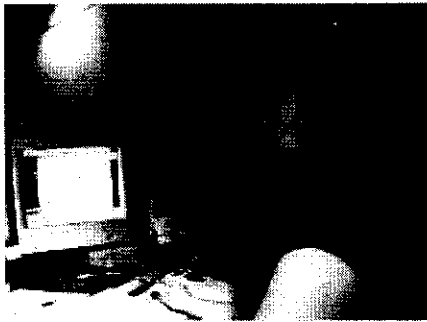


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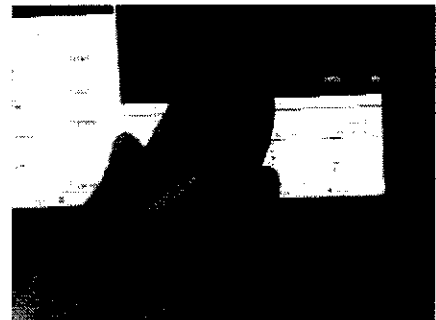
911 dispatchers in Southern Oregon have a new tool to help save lives. With an increase in calls coming in by cell phone, the new technology is helping dispatchers locate the caller's position.

The enhanced 911 service is now up and running in Cave Junction.

It could help save your life. It's a little button on the back of a cell phone battery. Johnathan Brock, 911 Administrative Assistant explains how the system works. "When you initiate a 911 call, you just dial 911 and send that information, and the 911 operator is going to prompt you to push the button. Once you do, your location can be pinpointed within fifteen meters. It will send a latitude, a longitude, as well as altitude and movement, so it sends your direction as well."

In Josephine County, the only wireless provider to offer the service is Edge Wireless. The push button equipped battery is available at the cost of a regular cell phone battery.

Doreen Ferguson, 911 Administrator says, "Seconds count and our mission, our goal, our objective is to provide the fastest response in the most efficient manner."



It's a trend that's catching on nationwide. Similar systems are already in place in Michigan and Delaware. By this time next year, administrators expect to have the enhanced service to all of Oregon. And there is no need to worry about strangers knowing your location. According to Johnathan Brock, "This is not transmitting until you press the button, so there is no big brother aspect to this technology. It's purely a safety thing. It only works when you press that button. The rest of the time it's just like a regular battery on a regular cell phone."

Right now, Cave Junction is the only city in Josephine County where the wireless service has been implemented. All of Josephine County should have the service by the end of the summer. But Jackson, Klamath, Curry and Coos Counties are not far behind.